

## Summary

The invention relates to a method for the uncoverage and the local enclosure of unwanted radio transmissions (5, 12, 19), for example unwanted telephony with mobile radiotelephones, in which with at least one radio receiver (2) with an antenna, which can be influenced in respect of their receiving properties, a surrounding area of the radio receiver (2) is examined for the existence of radio transmissions (5, 12, 19), namely after at least one initial training phase is carried out, during which by means of changing locally allocation between a reference emitting device for radio transmissions (5, 12, 19) and the radio receiver (2) representations of emitted and locally known reference radio transmissions are recorded, and afterwards at least a first measurement phase is carried out, during which the surrounding area is scanned by the radio receiver (2) for the existence of unwanted radio transmissions (5, 12, 19) and by recognition of unwanted radio transmission (5, 12, 19) a representation of the unwanted radio transmission (5, 12, 19) is determined, during existence of unwanted radio transmissions (5, 12, 19) an evaluation phase follows, in which the representations recorded during initial training phase and the representation of the recorded radio transmissions (5, 12, 19) are compared with each other and therefrom an information about the local position of the emitting device (6, 13, 17) of the unwanted radio transmissions (5, 12, 19) in the surrounding area is evaluated.

20 (Fig. 1)



(51) Internationale Patentklassifikation <sup>7</sup> :  G01S 5/02, 1/02	A1	(11) Internationale Veröffentlichungsnummer: WO 00/29866  (43) Internationales Veröffentlichungsdatum: 25. Mai 2000 (25.05.00)
(21) Internationales Aktenzeichen: PCT/DE99/03620		(81) Bestimmungsstaaten: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO Patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), eurasisches Patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), europäisches Patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI Patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
(22) Internationales Anmeldedatum: 14. November 1999 (14.11.99)		
(30) Prioritätsdaten: 198 52 715.2 16. November 1998 (16.11.98) DE		
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**Veröffentlicht**

Mit internationalem Recherchenbericht.  
Vor Ablauf der für Änderungen der Ansprüche zugelassenen Frist; Veröffentlichung wird wiederholt falls Änderungen eintreffen.

**(54) Title:** METHOD AND DEVICE FOR DISCOVERING AND LOCALIZING UNDESIRABLE RADIO EMISSIONS**(54) Bezeichnung:** VERFAHREN UND VORRICHTUNG ZUR AUFDECKUNG UND ÖRTLICHEN EINGRENZUNG UNERWÜNSCHTER FUNKAUSSENDUNGEN**(57) Abstract**

The invention relates to a method for discovering and localizing undesirable radio emissions (5, 12, 19), for example unauthorized radio telephony. According to said method, the environment of a radio receiver (2) is examined for the presence of radio emissions (5, 12, 19), whereby the radio receiver (2) that is used comprises a receiver device that can be influenced with respect to the reception qualities thereof. The invention is characterized in that a reproduction of undesirable radio emissions is recorded after at least one learning phase during which reproductions of radiated and locally known reference radio emissions are detected as a result of changing spatial allocation between a reference transmitter for radio emissions (5, 12, 19) and a radio receiver (2), followed by at least one measuring phase during which the environment is searched from the radio transmitter (2) in order to detect radio emissions (5, 12, 19) emanating from undesirable transmitters (6, 13, 17), followed by an evaluation phase if the undesirable radio emissions (5, 12, 19) are present, whereby the reproductions detected in the learning phase and the reproduction of the radio emissions (5, 12, 19) thus detected are compared with each other and data on the spatial position of the transmitter (6, 13, 17) of the undesirable radio emissions (5, 12, 9) is determined in said environment.

